

### Abstract of the Disclosure

5 A water and fuel conditioning device includes a core or casting made of 40-66% copper, 2-30% zinc, 10-25% nickel, 2-5% tin, 0-1.5% iron and 0-2% lead, all percentages being by weight. Water flowing in contact with this core exhibits greater electrical charge than with prior art devices. The same composition is effective as a fuel conditioner to reduce emissions. In both applications, the near absence of lead has environmental advantages.